

Turn Made From	Turn Made Onto	Acceptable Encroachment for Design Vehicle for Road/Street Onto Which Turn Made
Freeway Ramp	Other Facilities	No encroachment into opposing lanes of travel
Arterial	Arterial Collector Local	No encroachment into opposing lanes of travel 1-ft encroachment into opposing lanes of travel 2-ft encroachment into opposing lanes of travel
Collector	Arterial Collector Local	No encroachment into opposing lanes of travel 1-ft encroachment into opposing lanes of travel 2-ft encroachment into opposing lanes of travel
Local	Arterial Collector Local	No encroachment into opposing lanes of travel 2-ft encroachment into opposing lanes of travel 2-ft encroachment into opposing lanes of travel

Notes:

1. See [Figure 46-1E](#) for the design vehicle selection. The encroachment criteria refer to the design vehicle.
2. Before the turn is made, the design vehicle is assumed to be in the outermost through travel lane or exclusive right-turn lane, whichever applies. It is assumed that the vehicle does not encroach onto adjacent lanes on the road/street from which the turn is made.
3. When determining the acceptable encroachment, the designer should also consider turning volumes, through volumes and the type of traffic control at the intersection. In all cases, the desirable encroachment will be zero into the opposing lanes of travel.
4. The table indicates the amount by which the turning vehicle can encroach into the opposing lanes of travel. If there are two or more lanes of traffic in the same direction on the road onto which the turn is made, the selected design vehicle and occupy both travel lanes. Desirably, the turning vehicle will be able to make the turn while remaining entirely in the right through lane.
5. Regardless of the selected design vehicle or the criteria for encroachment, the IDV should physically be able to make all turns at all intersections without backing up and without impacting curbs, parked cars, utility poles, mailboxes or any other obstruction.
6. All proposed designs should be checked with the applicable vehicular turning template.

GUIDELINES FOR ENCROACHMENT FOR RIGHT TURNS (Urban Intersections)

Figure 46-2A